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Title: PACKET RELAY DEVICE, MOVING COMPUTER DEVICE, MOVING COMPUTER MANAGEMENT DEVICE, PACKET RELAY METHOD, PACKET TRANSMISSION METHOD AND MOVING COMPUTER POSITION REGISTRATION METHOD

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Abstract:

PROBLEM TO BE SOLVED: To continuously use a moving IP system even if a moving computer moves to a global address out of an organization by inspecting the content of a packet and transferring it as a system using a private address.

SOLUTION: A packet relay device (moving computer management device) 5 receiving a ciphered registration request packet decodes the packet by a key for the moving computer 2 being a transmission source and inspects the contents of the packet. When it is judged to be the registration request of moving IP from identification information in a packet header, the home address and the present position address of the moving computer are taken out from the packet and they are registered in a management table. The payload of a response packet (registration succeeding packet) for the registration request is ciphered with the key corresponding to the moving computer 2 being a transmission destination. The moving computer 2 decodes the packet with the key corresponding to the packet relay device 5 being the transmission source and registration success is recognized from the obtained

response packet.

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